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☐ 1. Document ID: US 7033797 B2

L51: Entry 1 of 12

File: USPT

Apr 25, 2006

US-PAT-NO: 7033797

DOCUMENT-IDENTIFIER: US 7033797 B2

TITLE: Synthetic virus-like particles with heterologous epitopes

DATE-ISSUED: April 25, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050058988 A1

March 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jansen; Kathrin U.	Doylestown	PA		US
Ling; Jessica C.	Bensalem	PA		US
Ludmerer; Steven W.	Piscataway	NJ		US
McClements; William L.	Doylestown	PA		US
Wang; Xin-Min	Schwenksville	PA		US

US-CL-CURRENT: [435/69.1](#); [424/178.1](#), [424/204.1](#), [424/205.1](#), [435/345](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 2. Document ID: US 7001995 B1

L51: Entry 2 of 12

File: USPT

Feb 21, 2006

US-PAT-NO: 7001995

DOCUMENT-IDENTIFIER: US 7001995 B1

TITLE: Synthetic human papillomavirus genes

DATE-ISSUED: February 21, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Neeper; Michael P	Collegeville	PA		US

McClements; William L.	Doylestown	PA	US
Jansen; Kathrin U.	Doylestown	PA	US
Schultz; Loren D.	Harleysville	PA	US
Chen; Ling	Blue Bell	PA	US
Wang; Xin-Min	Schwenksville	PA	US

US-CL-CURRENT: [536/23.1](#); [424/93.21](#), [435/320.1](#), [435/69.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 6991795 B1

L51: Entry 3 of 12

File: USPT

Jan 31, 2006

US-PAT-NO: 6991795

DOCUMENT-IDENTIFIER: US 6991795 B1

TITLE: Protein delivery system using human papillomavirus virus-like particles

DATE-ISSUED: January 31, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lowe; Robert S.	North Wales	PA		US
Jansen; Kathrin U.	Doylestown	PA		US
Joyce; Joseph G.	Lansdale	PA		US
McClements; William L.	Doylestown	PA		US
Cook, III; James C.	Lansdale	PA		US
Ling; Jessica Ching-Yee	Bensalem	PA		US
Neeper; Michael P.	Collegeville	PA		US

US-CL-CURRENT: [424/185.1](#); [424/186.1](#), [424/192.1](#), [424/204.1](#), [435/320.1](#), [435/325](#),
[435/366](#), [435/371](#), [435/455](#), [435/456](#), [514/2](#) , [536/23.1](#), [536/23.72](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 6908615 B1

L51: Entry 4 of 12

File: USPT

Jun 21, 2005

US-PAT-NO: 6908615

DOCUMENT-IDENTIFIER: US 6908615 B1

TITLE: DNA encoding human papilloma virus type 18

DATE-ISSUED: June 21, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Hofmann; Kathryn J.	Collegeville	PA
Jansen; Kathrin U.	Fort Washington	PA
Neeper; Michael P.	Collegeville	PA
Joyce; Joseph G.	Lansdale	PA
George; Hugh A.	Schwenksville	PA

US-CL-CURRENT: [424/204.1](#); [424/186.1](#), [435/235.1](#), [435/320.1](#), [435/6](#), [435/69.1](#), [530/300](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 6841157 B2

L51: Entry 5 of 12

File: USPT

Jan 11, 2005

US-PAT-NO: 6841157

DOCUMENT-IDENTIFIER: US 6841157 B2

TITLE: Production of chimeric human papillomavirus

DATE-ISSUED: January 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lowe; Robert S.	Harleysville	PA		
Meyers; Craig M.	Hummelstown	PA		
Zhang; Jiaping	Cranbury	NJ		
Kaupas; Michelle	Plymouth Meeting	PA		
Jansen; Kathrin Ute	Doylestown	PA		

US-CL-CURRENT: [424/204.1](#); [424/184.1](#), [424/205.1](#), [435/69.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 6689366 B1

L51: Entry 6 of 12

File: USPT

Feb 10, 2004

US-PAT-NO: 6689366

DOCUMENT-IDENTIFIER: US 6689366 B1

TITLE: Synthetic virus like particles with heterologous epitopes

DATE-ISSUED: February 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jansen; Kathrin U.	Doylestown	PA		
Ling; Jessica C.	Bensalem	PA		

Ludmerer; Steven W.	Piscataway	NJ
McClements; William L.	Doylestown	PA
Wang; Xin-Min	Schwenksville	PA

US-CL-CURRENT: 424/204.1; 424/192.1, 435/235.1, 435/69.1, 435/69.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KWC	Draw D
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☐ 7. Document ID: US 6290965 B1

L51: Entry 7 of 12

File: USPT

Sep 18, 2001

US-PAT-NO: 6290965

DOCUMENT-IDENTIFIER: US 6290965 B1

TITLE: DNA encoding human papillomavirus type 6A

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jansen; Kathrin U.	Fort Washington	PA		
Hofmann; Kathryn J.	Collegeville	PA		

US-CL-CURRENT: 424/199.1; 424/186.1, 424/204.1, 435/235.1, 435/239, 435/320.1,
435/325, 435/91.1, 435/91.33, 514/44, 536/23.1, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KWC	Draw D
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☐ 8. Document ID: US 6159729 A

L51: Entry 8 of 12

File: USPT

Dec 12, 2000

US-PAT-NO: 6159729

DOCUMENT-IDENTIFIER: US 6159729 A

TITLE: Synthetic HPV6/11 hybrid L1 DNA encoding human papillomavirus type 11 L1 protein

DATE-ISSUED: December 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hofmann; Kathryn J.	Collegeville	PA		
Jansen; Kathrin U.	Fort Washington	PA		
Neeper; Michael P.	Collegeville	PA		
Joyce; Joseph G.	Lansdale	PA		
George; Hugh A.	Schwenksville	PA		
Lehman; E. Dale	Lansdale	PA		

US-CL-CURRENT: 435/320.1; 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 9. Document ID: US 5888516 A

L51: Entry 9 of 12

File: USPT

Mar 30, 1999

US-PAT-NO: 5888516

DOCUMENT-IDENTIFIER: US 5888516 A

TITLE: Recombinant papillomavirus vaccines

DATE-ISSUED: March 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Jansen; Kathrin U.</u>	Ft. Washington	PA		
Cook, III; James C.	Lansdale	PA		
George; Hugh A.	Schwenksville	PA		
Hofmann; Kathryn J.	Collegeville	PA		
Joyce; Joseph G.	Lansdale	PA		
Lehman; Ernest Dale	Lansdale	PA		
Markus; Henry Z.	Wyncote	PA		
Rosolowsky; Mark	Doylestown	PA		
Schultz; Loren S.	Harleysville	PA		

US-CL-CURRENT: 424/204.1; 435/236, 435/69.3, 977/804, 977/915, 977/917, 977/918

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 10. Document ID: US 5840306 A

L51: Entry 10 of 12

File: USPT

Nov 24, 1998

US-PAT-NO: 5840306

DOCUMENT-IDENTIFIER: US 5840306 A

TITLE: DNA encoding human papillomavirus type 18

DATE-ISSUED: November 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hofmann; Kathryn J.	Collegeville	PA		
<u>Jansen; Kathrin U.</u>	Ft. Washington	PA		
Neeper; Michael P.	Collegeville	PA		

US-CL-CURRENT: 424/192.1; 435/252.3, 435/325, 435/361, 435/69.1, 435/69.3,

435/69.7, 514/12, 514/14, 514/16, 514/2, 530/300, 530/324, 530/326, 530/328,
530/350, 530/402, 530/403, 977/803, 977/915, 977/918, 977/924

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	References	Claims	KMC	Draw. De
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Terms	Documents
L49 and HPV	12

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☐ 1. Document ID: US 7041500 B2

L44: Entry 1 of 1

File: USPT

May 9, 2006

US-PAT-NO: 7041500

DOCUMENT-IDENTIFIER: US 7041500 B2

TITLE: Insect cell line

DATE-ISSUED: May 9, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030228696 A1

December 11, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Robinson; Robin A.

Dickerson

MD

US

US-CL-CURRENT: 435/348; 435/235.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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<input type="checkbox"/>	L49	Jansen kathrin.in.	12
		<i>DB=EPAB; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L48	HPV-31 and codon optimized and yeast	0
		<i>DB=JPAB; PLUR=YES; OP=ADJ</i>	
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		<i>DB=DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L46	HPV-31 and codon optimized and yeast	0
		<i>DB=PGPB; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L45	L39 and HPV-31	0
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
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<input type="checkbox"/>	L40	papillomavirus type 45 and codon optimized and yeast	0
<input type="checkbox"/>	L39	papillomavirus and codon optimized and yeast	25
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<input type="checkbox"/>	L37	papillomavirus codon optimized and yeast.clm.	0
<input type="checkbox"/>	L36	codon optimized and yeast.clm.	36
<input type="checkbox"/>	L35	codon optimized and yeast	260
<input type="checkbox"/>	L34	HPV-45 and yeast	19
<input type="checkbox"/>	L33	HPV-45 and yeast.clm.	1
<input type="checkbox"/>	L32	HPV-45 and host cell.clm.	1
<input type="checkbox"/>	L31	HPV-45 and host cell	19
<input type="checkbox"/>	L30	7001995 and host cell	1
<input type="checkbox"/>	L29	7001995 and yeast	0
<input type="checkbox"/>	L28	Neeper Michael.in.	10
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<input type="checkbox"/>	L27	Neeper Micheal.in.	0

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<input type="checkbox"/>	L26 Neeper Micheal.in.	0
<i>DB=PGPB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L25 L16 and HPV-45	1
<input type="checkbox"/>	L24 L16 and HPV45	0
<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L23 L16 and HPV45	0
<input type="checkbox"/>	L22 L16 and HPV-45	0
<input type="checkbox"/>	L21 L19 and HPV-45	0
<i>DB=EPAB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L20 L19 and HPV-45	0
<input type="checkbox"/>	L19 AU-2003219760-A8.did.	0
<input type="checkbox"/>	L18 WO-2003068933-A2.did.	0
<input type="checkbox"/>	L17 WO-2003068933-A2.did.	0
<i>DB=PGPB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L16 US-20040121465-A1.did.	1
<input type="checkbox"/>	L15 US-20040121465-A1.did.	1
<i>DB=EPAB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L14 WO-2003068933-A2.did.	0
<i>DB=DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L13 L12 and papillomavirus	3
<input type="checkbox"/>	L12 Robinson R A.in.	32
<i>DB=PGPB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L11 codon optimized and HPV.clm.	17
<input type="checkbox"/>	L10 codon optimized and HPV	59
<input type="checkbox"/>	L9 Gissmann.in. and codon optimized	0
<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L8 Gissmann.in. and salimi.xp.	6
<input type="checkbox"/>	L7 codon optimized and human papillomavirus	19
<input type="checkbox"/>	L6 codon optimized and human papillomavirus.clm.	3
<input type="checkbox"/>	L5 yeast and HPV.clm. and salimi.xp.	33
<input type="checkbox"/>	L4 yeast and HPV and salimi.xp.	56
<input type="checkbox"/>	L3 optimized and HPV and salimi.xp.	13
<input type="checkbox"/>	L2 codon optimized and HPV.clm.	2
<input type="checkbox"/>	L1 codon optimized and HPV.clm.	2

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- ☐ 1: [Pinto LA, Viscidi R, Harro CD, Kemp TJ, Garcia-Pineros AJ, Trivett M, Demuth F, Lowy DR, Schiller JT, Berzofsky JA, Hildesheim A.](#) [Related Articles, Links](#)



Cellular immune responses to HPV-18, -31, and -53 in healthy volunteers immunized with recombinant HPV-16 L1 virus-like particles.

Virology. 2006 Sep 30;353(2):451-62. Epub 2006 Jul 24.

PMID: 16863657 [PubMed - indexed for MEDLINE]

- ☐ 2: [Pinto LA, Edwards J, Castle PE, Harro CD, Lowy DR, Schiller JT, Wallace D, Kopp W, Adelsberger JW, Baseler MW, Berzofsky JA, Hildesheim A.](#) [Related Articles, Links](#)



Cellular immune responses to human papillomavirus (HPV)-16 L1 in healthy volunteers immunized with recombinant HPV-16 L1 virus-like particles.

J Infect Dis. 2003 Jul 15;188(2):327-38. Epub 2003 Jul 9.

PMID: 12854090 [PubMed - indexed for MEDLINE]

- ☐ 3: [Pinto LA, Castle PE, Roden RB, Harro CD, Lowy DR, Schiller JT, Wallace D, Williams M, Kopp W, Frazer IH, Berzofsky JA, Hildesheim A.](#) [Related Articles, Links](#)



HPV-16 L1 VLP vaccine elicits a broad-spectrum of cytokine responses in whole blood.

Vaccine. 2005 May 20;23(27):3555-64.

PMID: 15855014 [PubMed - indexed for MEDLINE]

- ☐ 4: [Yang R, Wheeler CM, Chen X, Uematsu S, Takeda K, Akira S, Pastrana DV, Viscidi RP, Roden RB.](#) [Related Articles, Links](#)



Papillomavirus capsid mutation to escape dendritic cell-dependent innate immunity in cervical cancer.

J Virol. 2005 Jun;79(11):6741-50.

PMID: 15890912 [PubMed - indexed for MEDLINE]

- ☐ 5: [Liu DW, Chang JL, Tsao YP, Huang CW, Kuo SW, Chen SL.](#) [Related Articles, Links](#)



Co-vaccination with adeno-associated virus vectors encoding human papillomavirus 16 L1 proteins and adenovirus encoding murine GM-CSF can elicit strong and prolonged neutralizing antibody.

Int J Cancer. 2005 Jan 1;113(1):93-100.

PMID: 15386434 [PubMed - indexed for MEDLINE]

- ☐ 6: [de Gruijl TD, Bontkes HJ, Walboomers JM, Coursaget P, Stukart MJ, Dupuy C, Kueter E, Verheijen RH, Helmerhorst TJ, Duggan-](#) [Related Articles, Links](#)

Keen MF, Stern PL, Meijer CJ, Scheper RJ.



Immune responses against human papillomavirus (HPV) type 16 virus-like particles in a cohort study of women with cervical intraepithelial neoplasia. I. Differential T-helper and IgG responses in relation to HPV infection and disease outcome.

J Gen Virol. 1999 Feb;80 (Pt 2):399-408.

PMID: 10073700 [PubMed - indexed for MEDLINE]



☐ 7: Oh YK, Sohn T, Park JS, Kang MJ, Choi HG, Kim JA, Kim WK, Ko JJ, Kim CK. Related Articles, Links



Enhanced mucosal and systemic immunogenicity of human papillomavirus-like particles encapsidating interleukin-2 gene adjuvant. Virology. 2004 Oct 25;328(2):266-73.

PMID: 15464846 [PubMed - indexed for MEDLINE]



☐ 8: Hallez S, Simon P, Maudoux F, Doyen J, Noel JC, Beliard A, Capelle X, Buxant F, Fayt I, Lagrost AC, Hubert P, Gerday C, Burny A, Boniver J, Foidart JM, Delvenne P, Jacobs N. Related Articles, Links



Phase I/II trial of immunogenicity of a human papillomavirus (HPV) type 16 E7 protein-based vaccine in women with oncogenic HPV-positive cervical intraepithelial neoplasia.

Cancer Immunol Immunother. 2004 Jul;53(7):642-50. Epub 2004 Feb 17.

PMID: 14985860 [PubMed - indexed for MEDLINE]



☐ 9: Park JS, Oh YK, Kang MJ, Kim CK. Related Articles, Links



Enhanced mucosal and systemic immune responses following intravaginal immunization with human papillomavirus 16 L1 virus-like particle vaccine in thermosensitive mucoadhesive delivery systems.

J Med Virol. 2003 Aug;70(4):633-41.

PMID: 12794729 [PubMed - indexed for MEDLINE]



☐ 10: Baud D, Ponci F, Bobst M, De Grandi P, Nardelli-Haeffliger D. Related Articles, Links



Improved efficiency of a Salmonella-based vaccine against human papillomavirus type 16 virus-like particles achieved by using a codon-optimized version of L1.

J Virol. 2004 Dec;78(23):12901-9.

PMID: 15542642 [PubMed - indexed for MEDLINE]



☐ 11: Sasagawa T, Tani M, Basha W, Rose RC, Tohda H, Giga-Hama Y, Azar KK, Yasuda H, Sakai A, Inoue M. Related Articles, Links



A human papillomavirus type 16 vaccine by oral delivery of L1 protein. Virus Res. 2005 Jun;110(1-2):81-90.

PMID: 15845258 [PubMed - indexed for MEDLINE]



☐ 12: Giannini SL, Hanon E, Moris P, Van Mechelen M, Morel S, Dessy F, Fourneau MA, Colau B, Suzich J, Losonksy G, Martin MT, Dubin G, Wettendorff MA. Related Articles, Links











Enhanced humoral and memory B cellular immunity using HPV16/18 L1 VLP vaccine formulated with the MPL/aluminium salt combination (AS04) compared to aluminium salt only.

Vaccine. 2006 Aug 14;24(33-34):5937-49. Epub 2006 Jun 19.

PMID: 16828940 [PubMed - indexed for MEDLINE]



☐ 13: Baez-Astua A, Herraiz-Hernandez E, Garbi N, Pasolli HA, Juarez V, Zur Hausen H, Cid-Arregui A. Related Articles, Links

-  Low-dose adenovirus vaccine encoding chimeric hepatitis B virus surface antigen-human papillomavirus type 16 E7 proteins induces enhanced E7-specific antibody and cytotoxic T-cell responses.
J Virol. 2005 Oct;79(20):12807-17.
PMID: 16188983 [PubMed - indexed for MEDLINE]
- ☐ 14: Rocha-Zavaleta L, Alejandro JE, Garcia-Carranca A. Related Articles, Links
-  Parenteral and oral immunization with a plasmid DNA expressing the human papillomavirus 16-L1 gene induces systemic and mucosal antibodies and cytotoxic T lymphocyte responses.
J Med Virol. 2002 Jan;66(1):86-95.
PMID: 11748663 [PubMed - indexed for MEDLINE]
- ☐ 15: Davidson EJ, Boswell CM, Sehr P, Pawlita M, Tomlinson AE, McVey RJ, Dobson J, Roberts JS, Hickling J, Kitchener HC, Stern PL. Related Articles, Links
-  Immunological and clinical responses in women with vulval intraepithelial neoplasia vaccinated with a vaccinia virus encoding human papillomavirus 16/18 oncoproteins.
Cancer Res. 2003 Sep 15;63(18):6032-41.
PMID: 14522932 [PubMed - indexed for MEDLINE]
- ☐ 16: Passmore JA, Burch VC, Shephard EG, Marais DJ, Allan B, Kay P, Rose RC, Williamson AL. Related Articles, Links
-  Single-cell cytokine analysis allows detection of cervical T-cell responses against human papillomavirus type 16 L1 in women infected with genital HPV.
J Med Virol. 2002 Jun;67(2):234-40.
PMID: 11992584 [PubMed - indexed for MEDLINE]
- ☐ 17: Smyth LJ, Van Poelgeest MI, Davidson EJ, Kwappenberg KM, Burt D, Sehr P, Pawlita M, Man S, Hickling JK, Fiander AN, Tristram A, Kitchener HC, Offringa R, Stern PL, Van Der Burg SH. Related Articles, Links
-  Immunological responses in women with human papillomavirus type 16 (HPV-16)-associated anogenital intraepithelial neoplasia induced by heterologous prime-boost HPV-16 oncogene vaccination.
Clin Cancer Res. 2004 May 1;10(9):2954-61.
PMID: 15131030 [PubMed - indexed for MEDLINE]
- ☐ 18: Villa LL. Related Articles, Links
-  Prophylactic HPV vaccines: reducing the burden of HPV-related diseases.
Vaccine. 2006 Mar 30;24 Suppl 1:S23-8.
PMID: 16194583 [PubMed - indexed for MEDLINE]
- ☐ 19: Davidson EJ, Sehr P, Faulkner RL, Parish JL, Gaston K, Moore RA, Pawlita M, Kitchener HC, Stern PL. Related Articles, Links
-  Human papillomavirus type 16 E2- and L1-specific serological and T-cell responses in women with vulval intraepithelial neoplasia.
J Gen Virol. 2003 Aug;84(Pt 8):2089-97.
PMID: 12867639 [PubMed - indexed for MEDLINE]
- ☐ 20: Poland GA, Jacobson RM, Koutsky LA, Tamms GM, Railkar R, Smith JF, Bryan JT, Cavanaugh PF Jr, Jansen KU, Barr E. Related Articles, Links
-  Immunogenicity and reactogenicity of a novel vaccine for human papillomavirus 16: a 2-year randomized controlled clinical trial.

Mayo Clin Proc. 2005 May;80(5):601-10.
PMID: 15887427 [PubMed - indexed for MEDLINE]

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